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WHAT IS CLAIMED IS:

- 1 1. For use by a read/write machine, a method for assigning
- 2 a unique label to a storage medium, the method comprising:
- a) determining whether or not the storage medium has
- 4 been considered before;
- 5 b) if the storage medium has not been considered
- 6 before, then
- 7 (i) determining a unique label identifier,
- 8 (ii) determining a unique volume label,
- 9 (iii) writing the unique volume label onto the
- 10 storage medium, and
- 11 (iv) providing a command to generate a label
- 12 based on the unique label identifier, the label
- to be associated with the storage medium; and
- 14 c) updating a database based on files added to or
- 15 deleted from the storage medium.
 - 1 2. The method of claim 1 further comprising:
 - 2 d) synchronizing the database with a database on a
 - 3 device apart from the read/write machine.
 - 1 3. The method of claim 2 wherein the read/write machine is
 - 2 a personal computer and the device is a handheld device.
 - 1 4. The method of claim 3 wherein the device is an
 - 2 untethered handheld device.
 - 1 5. The method of claim 1 wherein the read/write machine is
 - 2 a computer with at least one of (a) a floppy disk drive,
 - 3 (b) a CD ROM drive, (c) a ZIP drive, and (d) a DVD drive.

- 1 6. The method of claim 1 wherein the label based on the
- 2 unique label identifier is a bar code label.
- 1 7. The method of claim 1 wherein the act of determining a
- 2 unique volume label is based, at least in part, on state
- 3 information accessible to the read/write machine.
- 1 8. The method of claim 7 wherein the state information is
- 2 a count sequence.
- 1 9. The method of claim 1 wherein the database includes
- 2 records, each record including a first field having a value
- 3 associated with the unique volume label, and a second field
- 4 having a value associated with a file stored on the storage
- 5 medium.
- 1 10. A method for determining the contents of a storage
- 2 medium without reading the storage medium, the method
- 3 comprising:
- 4 a) accepting information read from a label associated
- 5 with the storage medium;
- 6 b) converting the accepted information into a
- 7 database key;
- 8 c) requesting records from a database instance using
- 9 the database key;
- d) accepting records in response to the request; and
- 11 e) rendering information about the accepted records.
 - 1 11. The method of claim 10 wherein the label associated
- 2 with the storage medium is a bar code and wherein the

- 3 information read from the label is accepted from a bar code
- 4 scanner.
- 1 12. The method of claim 10 wherein the information about
- 2 the accepted records rendered includes file names.
- 1 13. The method of claim 12 wherein the accepted
- 2 information read from a label associated with the storage
- 3 medium is read by a handheld device, and the information
- 4 about the accepted records is rendered on the handheld
- 5 device.
- 1 14. The method of claim 13 wherein the read label is
- 2 converted into a database key by the handheld device, the
- 3 records are requested from a database instance using the
- 4 database key by the handheld device, and the records are
- 5 accepted in response to the request by the handheld device.
- 1 15. A method for matching file parameters with one or more
- 2 storage media, each of the one or more storage media having
- 3 an associated label, the method comprising:
- 4 a) accepting one or more search parameters;
- 5 b) generating a query based on the search parameters;
- 6 c) accepting one or more records returned in response
- 7 to the query generated;
- 8 d) rendering information associated with each of the
- one or more records accepted, the information rendered
- 10 being related to the label associated with the storage
- 11 medium storing one or more files identified with the
- one or more records accepted.

- 1 16. The method of claim 15 wherein the labels are
- 2 machine-readable labels, the method further comprising:
- 3 e) accepting information read from the
- 4 machine-readable labels;
- f) if the accepted information read from the
- 6 machine-readable labels matches information associated
- 7 with any one of the one or more records accepted, then
- 8 generating a first indicator, said first indicator
- 9 able to be perceived by humans.
- 1 17. The method of claim 16 further comprising:
- 2 g) if the accepted information read from the
- 3 machine-readable labels does not match information
- 4 associated with any one of the one or more records
- 5 accepted, then generating a second indicator, said
- 6 second indicator able to be perceived by humans.
- 1 18. The method of claim 17 wherein the first indicator is
- 2 a first audible sound, and the second indicator is a second
- 3 audible sound.
- 1 19. The method of claim 15 wherein each of the labels
- 2 include human-readable part, and wherein the information
- 3 associated with each of the one or more records accepted
- 4 corresponds to the human-readable part of the labels.
- 1 20. An apparatus for assigning a unique label to a
- 2 removable storage medium, the apparatus comprising:
- a) means for reading files from and/or writing files
- 4 to a removable storage medium;
- 5 b) means for generating a label;

- c) means for determining whether or not the removable
 storage medium has been considered before;
- d) means, if the storage medium has not beenconsidered before, for
- 10 (i) determining a unique label identifier,
- 11 (ii) determining a unique volume label,
- 12 (iii) instructing the means for reading and/or
- writing files to write the unique volume label
- 14 onto the storage medium, and
- 15 (iv) providing a command to generate a label
- 16 based on the unique label identifier, to the
- means for generating a label; and
- e) a database, wherein the database is updated based
- on files added to or deleted from the removable
- 20 storage medium.
 - 1 21. The apparatus of claim 20 further comprising:
 - 2 f) means for synchronizing the database with a
 - database on a device apart from the apparatus.
 - 1 22. The apparatus of claim 21 wherein the device is a
 - 2 handheld device.
 - 1 23. The apparatus of claim 21 wherein the device is an
 - 2 untethered, handheld device.
 - 1 24. The apparatus of claim 20 wherein the means for
 - 2 reading files from and/or writing files to a removable
 - 3 storage medium are at least one of (a) a floppy disk drive,
 - 4 (b) a CD ROM drive, (c) a ZIP drive, and (d) a DVD drive.

- 1 25. The apparatus of claim 20 wherein the label is a bar
- 2 code label.
- 1 26. The apparatus of claim 20 further comprising:
- 2 f) state information, wherein the unique volume label
- is determined, at least in part, based on the state
- 4 information.
- 1 27. The apparatus of claim 26 wherein the state
- 2 information is a count sequence.
- 1 28. The apparatus of claim 20 wherein the database
- 2 includes records, each record including a first field
- 3 having a value associated with the unique volume label, and
- 4 a second field having a value associated with a file stored
- 5 on the removable storage medium.
- 1 29. An apparatus for determining the contents of a storage
- 2 medium without reading the storage medium, the apparatus
- 3 comprising:
- 4 a) means for reading a label associated with the
- 5 storage medium;
- 6 b) means for accepting information read, by the means
- 7 for reading, from a label associated with the storage
- 8 medium;
- 9 c) means for converting the read label into a
- 10 database key;
- 11 d) means for requesting records from a database
- instance using the database key;
- d) means for accepting records in response to the
- 14 request; and

- e) means for rendering information about the accepted
- 16 records.
- 1 30. The apparatus of claim 29 wherein the means for
- 2 reading is a bar code scanner, and wherein the label
- 3 associated with the storage medium is a bar code.
- 1 31. The apparatus of claim 29 wherein the information
- 2 about the accepted records rendered includes file names.
- 1 32. The apparatus of claim 29 wherein the means for
- 2 rendering is a display.
- 1 33. The apparatus of claim 29 further comprising:
- f) the database.
- 1 34. The apparatus of claim 33 further comprising:
- 2 g) means for synchronizing the database with a
- 3 database maintained by a separate machine which
- 4 created the storage medium.
- 1 35. An apparatus for matching file parameters with one or
- 2 more storage media, each of the one or more storage media
- 3 having an associated label, the apparatus comprising:
- a) a user input for accepting one or more search
- 5 parameters;
- 6 b) means for generating a query based on the accepted
- 7 one or more search parameters;
- 8 c) means for accepting one or more records returned
- 9 in response to the query generated;
- 10 d) means for rendering information associated with
- each of the one or more records accepted, the

- information rendered being related to the label
- associated with the storage medium storing one or more
- 14 files identified with the one or more records
- 15 accepted.
- 1 36. The apparatus of claim 35 wherein the labels are
- 2 machine-readable labels, the apparatus further comprising:
- 3 e) a label reader for reading information read from
- 4 the machine-readable labels; and
- 5 f) an output means for generating a first indicator
- able to be perceived by humans if the accepted
- 7 information read from the machine-readable labels
- 8 matches information associated with any one of the one
- 9 or more records accepted.
- 1 37. The apparatus of claim 36 wherein the output means
- 2 further generates a second indicator able to be perceived
- 3 by humans if the accepted information read from the
- 4 machine-readable labels does not match information
- 5 associated with any one of the one or more records
- 6 accepted.
- 1 38. The apparatus of claim 37 wherein the output means is
- 2 a speaker, wherein the first indicator is a first audible
- 3 sound, and wherein the second indicator is a second audible
- 4 sound.
- 1 39. The apparatus of claim 35 wherein each of the labels
- 2 include human-readable part, and wherein the information
- 3 associated with each of the one or more records accepted
- 4 corresponds to the human-readable part of the labels.